

Aeronautics Educator Guide			
2010 Science			
Standards of Learning			
Virginia Science			
Grade 2			
Activity/Lesson	State	Standards	
Air Engines (12-16)	VA	SCI.2.2.1.a	The student will conduct investigations in which observations and predictions are made and questions are formed;
Air Engines (12-16)	VA	SCI.2.2.1.e	The student will conduct investigations in which length, volume, mass, and temperature are measured in metric units and standard English units using the proper tools;
Where is North? The Compass Can Tell Us (87-90)	VA	SCI.2.2.1.a	The student will conduct investigations in which observations and predictions are made and questions are formed;
Let's Build a Table Top Airport (91-96)	VA	SCI.2.2.1.l	The student will conduct investigations in which simple physical models are designed and constructed to clarify explanations and show relationships; and
Plan to Fly There (97-106)	VA	SCI.2.2.1.f	The student will conduct investigations in which time is measured using the proper tools;
We Can Fly, You and I: Interdisciplinary Learning (107-108)	VA	SCI.2.2.1.f	The student will conduct investigations in which time is measured using the proper tools;
Dunked Napkin (17-22)	VA	SCI.2.2.1.a	The student will conduct investigations in which observations and predictions are made and questions are formed;
Dunked Napkin (17-22)	VA	SCI.2.2.1.j	The student will conduct investigations in which conclusions are drawn;
Paper Bag Mask (23-28)	VA	SCI.2.2.1.e	The student will conduct investigations in which length, volume, mass, and temperature are measured in metric units and standard English units using the proper tools;
Wind in Your Socks) (29-35)	VA	SCI.2.2.1.e	The student will conduct investigations in which length, volume, mass, and temperature are measured in metric units and standard English units using the proper tools;
Bag Balloons (40-43)	VA	SCI.2.2.1.a	The student will conduct investigations in which observations and predictions are made and questions are formed;
Sled Kite (44-51)	VA	SCI.2.2.1.e	The student will conduct investigations in which length, volume, mass, and temperature are measured in metric units and standard English units using the proper tools;
Delta Wing Glider (60-68)	VA	SCI.2.2.1.a	The student will conduct investigations in which observations and predictions are made and questions are formed;
Aeronautics Educator Guide			
2010 Science			
Standards of Learning			

Virginia Science			
Grade 3			
Activity/Lesson	State	Standards	
Air Engines (12-16)	VA	SCI.3.3.1.e	The student will plan and conduct investigations in which length, volume, mass, and temperature are estimated and measured in metric and standard English units using proper tools and techniques;
Let's Build a Table Top Airport (91-96)	VA	SCI.3.3.1.l	The student will plan and conduct investigations in which models are designed and built; and
Plan to Fly There (97-106)	VA	SCI.3.3.1.f	The student will plan and conduct investigations in which time is measured to the nearest minute using proper tools and techniques;
We Can Fly, You and I: Interdisciplinary Learning (107-108)	VA	SCI.3.3.1.f	The student will plan and conduct investigations in which time is measured to the nearest minute using proper tools and techniques;
We Can Fly, You and I: Interdisciplinary Learning (107-108)	VA	SCI.3.3.1.h	The student will plan and conduct investigations in which data are gathered, charted, graphed, and analyzed;
Dunked Napkin (17-22)	VA	SCI.3.3.1.b	The student will plan and conduct investigations in which predictions are formulated using a variety of sources of information;
Dunked Napkin (17-22)	VA	SCI.3.3.1.h	The student will plan and conduct investigations in which data are gathered, charted, graphed, and analyzed;
Dunked Napkin (17-22)	VA	SCI.3.3.1.j	The student will plan and conduct investigations in which inferences are made and conclusions are drawn;
Paper Bag Mask (23-28)	VA	SCI.3.3.1.e	The student will plan and conduct investigations in which length, volume, mass, and temperature are estimated and measured in metric and standard English units using proper tools and techniques;
Paper Bag Mask (23-28)	VA	SCI.3.3.1.j	The student will plan and conduct investigations in which inferences are made and conclusions are drawn;
Wind in Your Socks) (29-35)	VA	SCI.3.3.1.e	The student will plan and conduct investigations in which length, volume, mass, and temperature are estimated and measured in metric and standard English units using proper tools and techniques;
Right Flight (52-59)	VA	SCI.3.3.1.l	The student will plan and conduct investigations in which models are designed and built; and
Delta Wing Glider (60-68)	VA	SCI.3.3.1.b	The student will plan and conduct investigations in which predictions are formulated using a variety of sources of information;

Aeronautics Educator Guide			
2010 Science			
Standards of Learning			
Virginia Science			
Grade 4			
Activity/Lesson	State	Standards	
Air Engines (12-16)	VA	SCI.4.4.1.a	The student will plan and conduct investigations in which distinctions are made among observations, conclusions, inferences, and predictions;
Air Engines (12-16)	VA	SCI.4.4.1.c	The student will plan and conduct investigations in which appropriate instruments are selected and used to measure length, mass, volume, and temperature in metric units;
Air Engines (12-16)	VA	SCI.4.4.2.a	The student will plan and conduct investigations in which motion is described by an object's direction and speed;
Air Engines (12-16)	VA	SCI.4.4.2.b	The student will plan and conduct investigations in which changes in motion are related to force and mass;
Air Engines (12-16)	VA	SCI.4.4.2.c	The student will plan and conduct investigations in which friction is a force that opposes motion; and
Plan to Fly There (97-106)	VA	SCI.4.4.1.d	The student will plan and conduct investigations in which appropriate instruments are selected and used to measure elapsed time;
Plan to Fly There (97-106)	VA	SCI.4.4.2.a	The student will plan and conduct investigations in which motion is described by an object's direction and speed;
We Can Fly, You and I: Interdisciplinary Learning (107-108)	VA	SCI.4.4.1.d	The student will plan and conduct investigations in which appropriate instruments are selected and used to measure elapsed time;
Dunked Napkin (17-22)	VA	SCI.4.4.1.a	The student will plan and conduct investigations in which distinctions are made among observations, conclusions, inferences, and predictions;
Dunked Napkin (17-22)	VA	SCI.4.4.1.h	The student will plan and conduct investigations in which hypotheses are developed as cause and effect relationships;
Paper Bag Mask (23-28)	VA	SCI.4.4.1.a	The student will plan and conduct investigations in which distinctions are made among observations, conclusions, inferences, and predictions;
Paper Bag Mask (23-28)	VA	SCI.4.4.1.c	The student will plan and conduct investigations in which appropriate instruments are selected and used to measure length, mass, volume, and temperature in metric units;
Wind in Your Socks) (29-35)	VA	SCI.4.4.1.a	The student will plan and conduct investigations in which distinctions are made among observations, conclusions, inferences, and predictions;

Wind in Your Socks) (29-35)	VA	SCI.4.4.1.c	appropriate instruments are selected and used to measure length, mass, volume, and temperature in metric units;
Right Flight (52-59)	VA	SCI.4.4.1.l	mThe student will plan and conduct investigations in which odels are constructed to clarify explanations, demonstrate relationships, and solve needs; and
Delta Wing Glider (60-68)	VA	SCI.4.4.1.a	The student will plan and conduct investigations in which distinctions are made among observations, conclusions, inferences, and predictions;